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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/074,576	02/11/2002	Don J. Nguyen	42390P13459	6582

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EXAMINER

NGUYEN, DANNY

ART UNIT PAPER NUMBER

2836

DATE MAILED: 12/19/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application N .

10/074,576

Applicant(s)

NGUYEN ET AL.

Examiner

Danny Nguyen

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-- The MAILING DATE of this communication appears in the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 February 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 February 2002 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Drawings

1. The drawing 1 is objected to under 37 CFR 1.83(a) because they fail to show descriptive labels as described in the specification. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-7, 11-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art (APA) in view of Song et al. (USPN 2002/0000758).

Regarding to claims 1, 2, 3, 11, 12, 13, APA discloses a system (see fig. 1) comprises a battery; a computer system connected to a battery. APA does not disclose a super-capacitor and a current limiter as claimed. Song et al. disclose a system (see fig. 1) comprises a super-capacitor (48) (note that capacitor (48) has a large capacitance value and is used to supply power to the components in the circuit. Therefore it acts as a super-capacitor) coupled in parallel to the battery and a current limiter (see fig. 2) coupled to the battery, the super capacitor, and computer system

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that prevents excess current from flowing the battery to the capacitor. It would have been obvious to one having skill in the art at the time the invention was made to modify the circuitry of APA with a super-capacitor and a current limiter in order to prevent a damage to the circuit components from a high voltage (Song et. al., page 3, paragraph 6).

Regarding to claim 4, APA discloses all limitations of claim 1 except for having the super capacitor which has a capacitance of 20 farad and resistance of 5 m. Song et al. the super capacitor (48) with a large capacitance and could be used as power source (see page 2, paragraph 3). However Song et al. do not disclose exactly the capacitor with a capacitance of 20 farad and a resistance of 5m. It would have been an obvious matter of choice to one having ordinary skill in the art to select any capacitance value of the capacitors in order to protect damage to the circuit's components from a high voltage as long as it provides the intended function. In re Dailey, 357 F.2d 669, 149 USPQ 47 (CCPA 1966).

Regarding to claim 5, APA discloses a power delivery subsection (see fig. 1); a plurality of hardware components (a hard disk drive, graphic controller, see described in fig. 1) coupled to the power delivery subsection.

Regarding to claims 6, 14, APA discloses a system voltage regulator (system DC-DC regulator); a chipset voltage regulator (a chipset voltage regulator); a central processing unit voltage regulator (a CPU voltage regulator)(see fig. 1).

Regarding to claims 7, 15, APA discloses all limitations of claim 1 except for having a first transistor; a second transistor connected to the first transistor, and a

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resistor connected to the second transistor. Song et al. disclose a first transistor (24); a second transistor (26) connected to the first transistor, and a resistor (28) connected to the second transistor. It would have been obvious to one having skill in the art at the time the invention was made to modify the circuitry of APA with a first transistor; a second transistor connected to the first transistor, and a resistor connected to the second transistor as taught by Song et al. in order to detect prevent a damage to the circuit components from a high current (Song et. al., page 3, paragraph 6).

3. Claims 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art (APA) in view of Song et al., and further in view of Smith et al. (USPN 4,868,826). APA and Song et. al. disclose all limitations of claim 1 except for having a first comparator and a second comparator as claimed. Smith et al. discloses a first comparator (18a) and a second comparator (18b). It would have been obvious to one having skill in the art at the time the invention was made to modify the circuitry of APA and Song et al. with a first comparator and a second comparator as taught by Smith et al. in order to control the correct output signals based on the input signals (see Smith et al., col. 4, lines 4-17).

4. Claims 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art (APA) in view of Smith et al. (USPN 4,868,826). APA discloses all limitations of claim 15 except for having a first comparator and a second comparator as claimed. Smith et al. discloses a first comparator (18a) and a second comparator (18b). It would have been obvious to one having skill in the art at the time the invention was made to modify the circuitry of APA with a first comparator and a second comparator as

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taught by Smith et al. in order to control the correct output signals based on the input signals (see Smith et al., col. 4, lines 4-17).

Conclusion


5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Danny Nguyen whose telephone number is (703)-305-5988. The examiner can normally be reached on Mon to Fri 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on (703)-308-3119. The fax phone numbers for the organization where this application or proceeding is assigned are (703)-872-9318 for regular communications and (703)-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)-308-0956.

DN

DN
December 16, 2002


BRIAN SIRCUS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800